

Name: _____

Score: _____

Balancing Equation

Find the value of x to balance the equation. Identify the property used.

1) $5 + 9 = x + 5$

$x =$ _____

Property: _____

2) $7 + (4 + x) = (7 + 4) + 8$

$x =$ _____

Property: _____

3) $3 \times (4 \times 6) = (x \times 4) \times 6$

$x =$ _____

Property: _____

4) $x + 3 = 3 + 4$

$x =$ _____

Property: _____

5) $(11 + 2) + 8 = 11 + (x + 8)$

$x =$ _____

Property: _____

6) $3 \times x = 7 \times 3$

$x =$ _____

Property: _____

7) $9 + 7 = 7 + x$

$x =$ _____

Property: _____

8) $12 \times (x \times 4) = (12 \times 5) \times 4$

$x =$ _____

Property: _____

9) $8 + (5 + x) = (8 + 5) + 7$

$x =$ _____

Property: _____

10) $4 \times 6 = 6 \times x$

$x =$ _____

Property: _____

11) $7 + x = 14 + 7$

$x =$ _____

Property: _____

12) $(8 \times 3) \times 10 = 8 \times (3 \times x)$

$x =$ _____

Property: _____

13) $x \times 12 = 12 \times 4$

$x =$ _____

Property: _____

14) $x + (13 + 9) = (2 + 13) + 9$

$x =$ _____

Property: _____

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Frame the Equation

Use the numbers and the property to create the equation.

1) 4, 6 and 9 Associative property of addition: _____	2) 11 and 3 Commutative property of multiplication: _____
3) 7 and 5 Commutative property of multiplication: _____	4) 8, 5 and 9 Associative property of multiplication: _____
5) 12 and 3 Commutative property of addition: _____	6) 5 and 2 Commutative property of multiplication: _____
7) 6, 4 and 8 Associative property of addition: _____	8) 8 and 13 Commutative property of addition: _____
9) 10, 5 and 7 Associative property of multiplication: _____	10) 6, 12 and 4 Associative property of addition: _____
11) 9 and 15 Commutative property of addition: _____	12) 11, 4 and 9 Associative property of multiplication: _____
13) 10, 2 and 5 Associative property of addition: _____	14) 15 and 3 Commutative property of multiplication: _____
15) 14 and 3 Commutative property of addition: _____	16) 8, 12 and 6 Associative property of multiplication: _____